

## AiXun AX202404095

# AiXun Portable Smart Soldering Station User Manual

Model: AX202404095

Brand: AiXun

## 1. INTRODUCTION

The AiXun T380 Portable Smart Soldering Station is an advanced and efficient tool designed for precision soldering. It features a built-in neural network temperature control algorithm for rapid heating, achieving tin melting in just one second. With an 80W rated power, it is suitable for various maintenance tasks. The station supports both T210 and T115 handles and includes an adjustable sleep stand for convenience. Constructed with a durable aluminum alloy body, it is heat-resistant and robust, weighing 1.2KG for portability. The T380 also supports OTA software upgrades for continuous improvement.



Figure 1: AiXun Portable Smart Soldering Station

## 2. SAFETY INFORMATION

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Please read all safety warnings and instructions carefully before using this product to prevent electric shock, fire, or serious injury.

- **Eye Protection:** Always wear safety glasses to protect your eyes from solder splashes and fumes.
- **Ventilation:** Use the soldering station in a well-ventilated area or with a fume extractor to avoid inhaling harmful solder fumes.
- **Hot Surfaces:** The soldering iron tip and surrounding metal parts become extremely hot during operation. Avoid direct contact. Allow the iron to cool completely before handling or storing.
- **Proper Grounding:** Ensure the soldering station is properly grounded to prevent electric shock.
- **Flammable Materials:** Keep flammable materials away from the soldering area.
- **Children and Pets:** Keep the soldering station out of reach of children and pets.
- **Power Disconnection:** Always unplug the soldering station from the power outlet when not in use or before performing maintenance.

## 3. PACKAGE CONTENTS

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Verify that all items listed below are included in your package:

- 1 x T380 Portable Smart Soldering Station
- 1 x T210 Handle
- 1 x T115 Handle
- 1 x C210 Tip (K-tip)
- 1 x C210 Tip (S-tip)
- 1 x C210 Tip (I-tip)
- 1 x C115 Tip (K-tip)
- 1 x C115 Tip (S-tip)
- 1 x C115 Tip (I-tip)
- 1 x Data Cable
- 1 x Charger

## 4. SETUP

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1. **Connect the Handle:** Insert either the T210 or T115 handle into the designated port on the soldering station. Ensure it is securely connected.
2. **Install Soldering Tip:** Select the appropriate soldering tip (C210 or C115 series) and carefully insert it into the end of the soldering handle. Ensure it is fully seated.
3. **Connect Power:** Connect the charger to the soldering station's power input port, then plug the charger into a standard AC 110V-230V power outlet.
4. **Adjust Sleep Stand:** The sleep stand can be adjusted to various angles to suit your working preference and to safely hold the soldering iron when not in active use.

# Provide strong support for soldering scene

## Support T210/T115 handles

High compatibility, support T210/T115 handles, build soldering station which is applicable to various kinds of environments



Figure 2: T210 and T115 Handle Compatibility

## 5. OPERATING INSTRUCTIONS

1. **Power On:** Once connected to power, the station will automatically power on. The display will show the current temperature and settings.
2. **Temperature Adjustment:** Use the control knob or buttons on the station to set your desired soldering temperature. The temperature range is 100°C to 450°C. The neural network algorithm ensures rapid heating to the set temperature.
3. **Rapid Heating:** The station is designed to heat up and melt tin in approximately one second due to its advanced temperature control algorithm.
4. **Sleep Mode:** When the soldering iron is placed in the sleep stand, the station will automatically enter sleep mode to conserve energy and prolong tip life. It will quickly resume full temperature when the iron is picked up.
5. **Tip Cleaning:** Regularly clean the soldering tip using the included sponge or brass wool to remove excess solder and oxidation. This ensures optimal performance and extends tip lifespan.

6. **Software Upgrade (OTA/USB):** The T380 supports software upgrades to keep its features up-to-date. This can be done via Wi-Fi (OTA) or by connecting the station to a computer using the provided data cable. Refer to the AiXun website for the latest software and upgrade instructions.

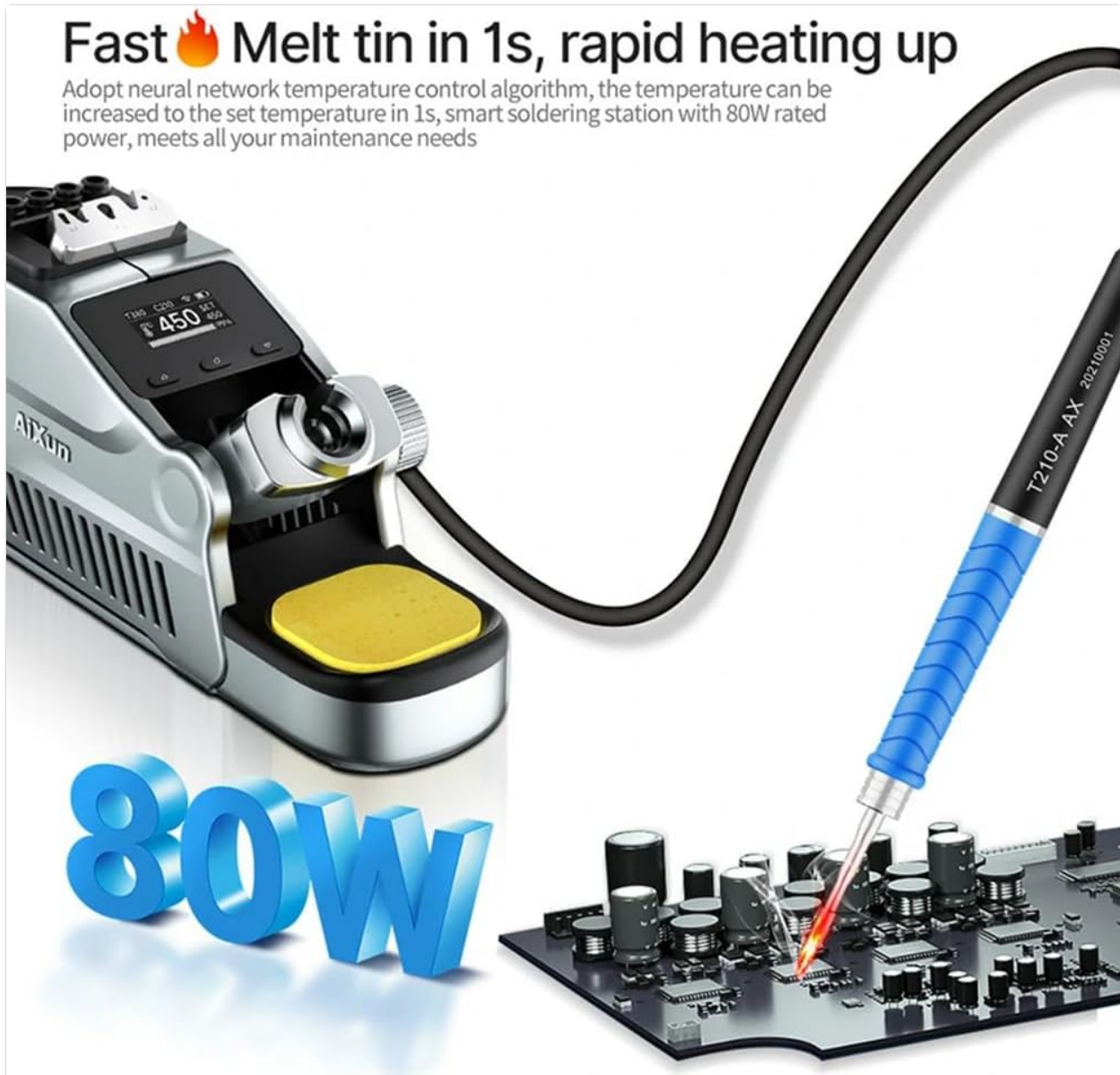


Figure 3: Rapid Heating Capability



# Accurate Neural network temperature control algorithm

An intelligent, networking, integrated soldering station, come with smart soldering assistance system, improve soldering quality in real time, more powerful soldering efficiency



Smart temp  
control system



Smart  
recognition  
of handle



Temp  
self-memory



Real time  
standby  
induction



Figure 4: Accurate Neural Network Temperature Control

# Convenient WiFi networking OTA upgrade

Built-in with 5G dual mode bluetooth WiFi module, OTA upgrade. Upgrade T380 soldering station to the latest software version through networking, more intelligent and simple! AiXun has all the functions you want!



Figure 5: Wi-Fi Networking and OTA Upgrade

## 6. MAINTENANCE

- **Tip Care:** Always tin the soldering tip before storing it to prevent oxidation. Replace tips when they become excessively worn or corroded.
- **Cleaning the Station:** Wipe down the exterior of the soldering station with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Sponge/Brass Wool:** Keep the cleaning sponge damp (not soaking wet) or replace the brass wool periodically to ensure effective tip cleaning.

## 7. TROUBLESHOOTING

- **Station Not Powering On:** Ensure the power adapter is securely connected to both the station and a working power outlet. Check the power outlet with another device.
- **Iron Not Heating:** Verify that the soldering handle and tip are correctly installed. Check the temperature setting on the display. If the issue persists, the tip or handle may need replacement.
- **Temperature Display Issues:** If the temperature display is erratic or incorrect, ensure the tip is fully

seated and clean. If the problem continues, contact support.

- **Unable to Change Temperature Unit (e.g., to Fahrenheit):** Some firmware versions may have limitations. Ensure your device has the latest firmware update. If the issue persists after updating, it may be a known software limitation.

## 8. SPECIFICATIONS

Feature	Specification
Product Name	Portable Smart Soldering Station
Model	T380 (AX202404095)
Adapter Voltage	AC 110V-230V
Rated Power	80W
Temperature Range	100°C - 450°C
Temperature Stability	100°C
Supported Handles	T210, T115
Host Weight	1.2 kg (4.4 pounds)
Material	Aluminum Alloy (Metal)
Display Type	Digital

## 9. WARRANTY AND SUPPORT

This product comes with a manufacturer's warranty. For detailed warranty information, technical support, or service inquiries, please refer to the official AiXun website or contact their customer service directly. An official User Manual (PDF) is also available for download:[Download User Manual \(PDF\)](#)